

Requirements Document

PRC-RD-SH-29096

Tags, Signs and Barriers

Revision 0, Change 1

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**Project: CH2M HILL Plateau Remediation Company
Topic: Occupational Safety & Industrial Hygiene**

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<h1>Administrative Use</h1>

Tags, Signs and Barriers**Published Date: 5/27/2009****Effective Date: 5/27/2009****CHANGE SUMMARY****AJHA:** N/A**HRB Date:** N/A**Periodic Review Due Date:** 3/31/2014**Validation Date:** N/A**Rev. 0, Chg. 1 PR#:** PRC-09-0462**USQ Screen Number:**

Editorial: GCX-2

TP: Exempt

Description of Change

5/17/09 - Editorial changes to align with current CHPRC procedures format, and reference and form numbers and titles.

4/2/09 - Changed names and references impacted by transition. Added a suggested Work Area Warning Sign for use to describe entry, hazard, and control requirements.

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1.0 PURPOSE AND SCOPE

This Level 2 requirements document is applicable to CH2M HILL Plateau Remediation Company (CHPRC) Team employees and establishes requirements for the proper use of accident prevention signs, tags, barriers, and warning garments.

2.0 REQUIREMENTS**NOTES:**

1. Refer to DOE-0336, *Hanford Site Lockout/Tagout*, for any application where prevention of unexpected start-up or release of stored energy that could result in injury or hazardous exposure is required.
2. Refer to PRC-PRO-OP-23749, *Miscellaneous Facility Tags*, for general tags (i.e., Information Tag, Deactivation Tag, Lay-up Tag, Out-of Service Tag, Temporary Label Tag Caution Tag, and Warning Tag).
3. Refer to PRC-RD-SH-9237, *Motor Vehicle/Bicycle Safety*, for flagger signaling and traffic-related barricading requirements.
4. Refer to DOE-RL-92-36, *DOE Hoisting & Rigging Manual*, for crane and hoist signal requirements.
5. Refer to PRC-RD-SH-10321, *Walking/Working Surfaces*, for guardrail system requirements.
6. Refer to HNF-5173, *PHMC Radiological Control Manual*, for occupational radiation protection-related signs, tags, and barriers.

NOTE: For the tables in this section under the requirements "type" column, "V" means verbatim and "I" means interpreted.

#	REQUIREMENT	TYPE	Source
		V or I	
1.	Accident Prevention sign and tag categories include: a. <i>Danger</i> which shall be used only where an immediate hazard exists. b. <i>Caution</i> which shall be used only to warn against potential hazards or to caution against unsafe practices. c. <i>Safety Instruction</i> which shall be used to convey a safety message.	I	29CFR1926.200 (b, c, & e)
2.	Accident prevention signs and tags shall be visible at all times when work is being performed, and shall be removed or covered promptly when the hazard no longer exists.	I	29CFR1926.200 (a)

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3.	Accident prevention signs and tags shall be of durable material to meet length of use and field condition needs. They shall be replaced if unreadable or deteriorated.	I	10CFR851.23 (3) and (7)
4.	Accident Prevention tags shall be used as a temporary means of warning employees of an existing hazard, such as defective tools, equipment, etc.	I	29CFR1926.200 (h)
5.	Accident Prevention signs shall be placed in strategic and prominent locations.	I	10CFR851.23 (3) and (7)
6.	Accident Prevention sign and tag colors, size, and wording shall conform to ANSI Z35.1, <i>Specifications for Accident Prevention Signs</i> , ANSI Z35.2, <i>Specifications for Accident Prevention Tags</i> , and DOE-0336, <i>Hanford Site Lockout/Tagout</i> .	I	29CFR1926.200 (i)
7.	Barrier tape, rope, or fencing, if used in conjunction with accident prevention signs, must be able to withstand the elements (i.e., wind and weather). The tape, rope, or fencing shall be maintained until the hazard no longer exists. NOTE: Refer to PRC-RD-SH-10321 if a guardrail system is to be used.	I	10CFR851.23 (3) and (7)
8.	Employees not directly involved with the immediate work must first contact the workers or the person-in-charge to obtain permission to cross established barricades prior to each entry or as directed by the person in charge.	I	10CFR851.23 (3) and (7)
9.	When warning garments (i.e. vests or jackets) are used, they shall meet ANSI/ISEA107, <i>American National Standard for High-Visibility Safety Apparel and Headwear</i> criteria.	I	29CFR1926.201 (a) FHA, <i>Manual on Uniform Traffic Control Devices (MUTCD)</i> Section 6E.02

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3.0 SOURCES

3.1 Requirements

10 CFR 851, *Worker Safety and Health Program*
29 CFR 1910, *Occupational Safety and Health Standards*
29 CFR 1926.Subpart G, *Signs, Signals, and Barricades*
Federal Highway Administration, *Manual on Uniform Traffic Control Devices (MUTCD)-2003*

3.2 References

DOE-0336, *Hanford Site Lockout/Tagout*
DOE-RL-92-36, *Hanford Site Hoisting & Rigging Manual*
PRC-PRO-OP-23749, *Miscellaneous Facility Tags*
PRC-RD-SH-10321, *Walking/Working Surfaces*
PRC-RD-SH-9237, *Motor Vehicle/Bicycle Safety*
ANSI Z35.1-1968, *Specifications for Accident Prevention Signs*
ANSI Z35.2-1968, *Specification for Accident Prevention Tags*
ANSI/ISEA107-2004, *American National Standard for High-Visibility Safety Apparel and Headwear*

4.0 APPENDIXES

Appendix A – Work Area Warning Sign

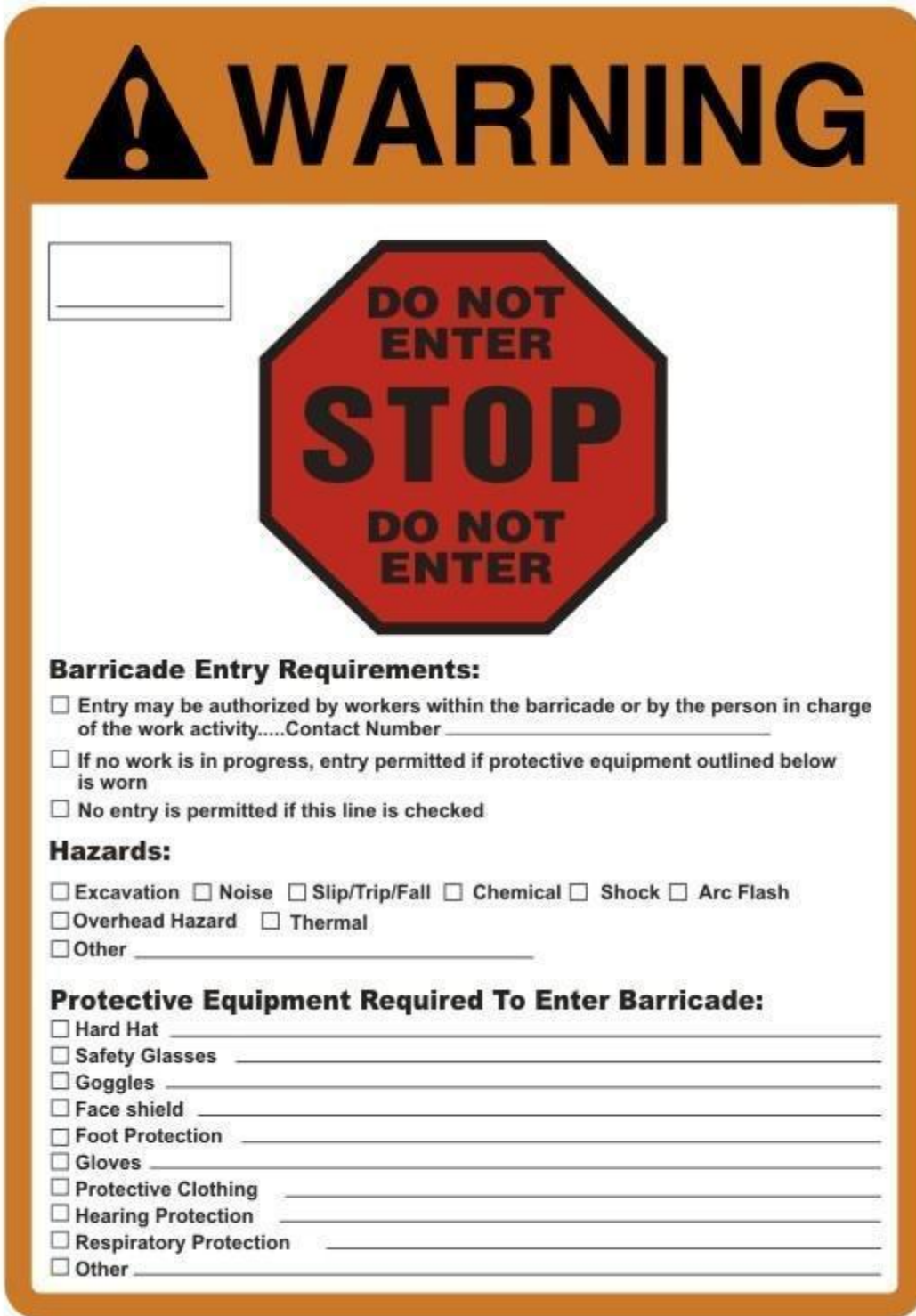
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Appendix A – Work Area Warning Sign

Reorder Number G901603

 <p>The sign is rectangular with an orange border. At the top left is a black triangle with a white exclamation mark. To its right, the word "WARNING" is written in large, bold, black capital letters. Below this, on the left, is a small rectangular box for a label. In the center is a red octagonal sign with a black border. Inside the octagon, the text "DO NOT ENTER" is at the top, "STOP" is in the middle in large letters, and "DO NOT ENTER" is at the bottom. Below the octagon are three sections of text with checkboxes: "Barricade Entry Requirements:", "Hazards:", and "Protective Equipment Required To Enter Barricade:". Each section has several lines of text with checkboxes and blank lines for additional information.</p>	
WARNING	
<div></div>	<div>DO NOT ENTER STOP DO NOT ENTER</div>
Barricade Entry Requirements:	
<input type="checkbox"/> Entry may be authorized by workers within the barricade or by the person in charge of the work activity.....Contact Number _____	
<input type="checkbox"/> If no work is in progress, entry permitted if protective equipment outlined below is worn	
<input type="checkbox"/> No entry is permitted if this line is checked	
Hazards:	
<input type="checkbox"/> Excavation <input type="checkbox"/> Noise <input type="checkbox"/> Slip/Trip/Fall <input type="checkbox"/> Chemical <input type="checkbox"/> Shock <input type="checkbox"/> Arc Flash	
<input type="checkbox"/> Overhead Hazard <input type="checkbox"/> Thermal	
<input type="checkbox"/> Other _____	
Protective Equipment Required To Enter Barricade:	
<input type="checkbox"/> Hard Hat _____	
<input type="checkbox"/> Safety Glasses _____	
<input type="checkbox"/> Goggles _____	
<input type="checkbox"/> Face shield _____	
<input type="checkbox"/> Foot Protection _____	
<input type="checkbox"/> Gloves _____	
<input type="checkbox"/> Protective Clothing _____	
<input type="checkbox"/> Hearing Protection _____	
<input type="checkbox"/> Respiratory Protection _____	
<input type="checkbox"/> Other _____	